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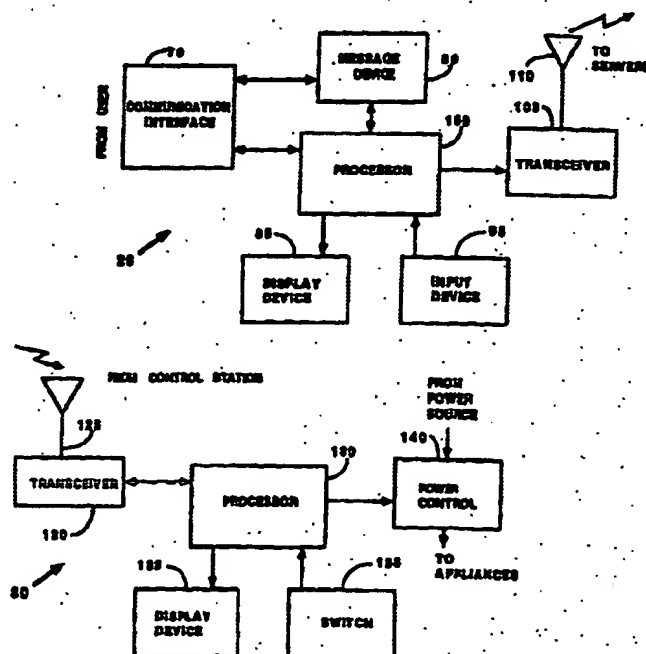
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## (57) Abstract

A wireless automation system is disclosed including apparatus and method for transferring data between a plurality of electrical equipment or appliances (servers). In the preferred embodiment, multiple servers including those having remote infra-red control maintains wireless communication links with at least one control station for data transmission and reception. These servers in turn are either electrically or optically coupled to electrical equipment or appliances. Data frames having unique device identification are encoded using frequency-shift keying technique before they are sent to radio frequency transceiver for modulation into FM signals. The control station has a central processor which converts the digital data from the transceiver into square pulses of their respective frequency before transmitting it to the RF transceiver of the servers. It follows that the present invention transmits and receives data frames between a control station and multiple servers securely by using the same radio frequency without affecting the reliability of the system.





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